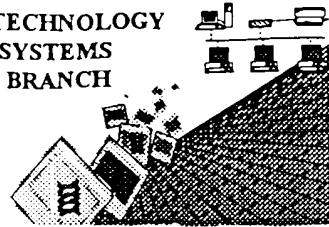


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 18/212 345  
Source: 1.0  
Date Processed by STIC: 3/19/00

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**  
**VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: \_\_\_\_\_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>      Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



Does Not Comply  
Corrected Data Needed

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/087,345

DATE: 03/19/2002

TIME: 14:53:27

Input Set : A:\um-06962.txt

Output Set: N:\CRF3\03192002\J087345.raw

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors

3 <110> APPLICANT: Owyang, Chung  
5 <120> TITLE OF INVENTION: ORPHANIN FQ RECEPTOR NUCLEIC ACIDS  
7 <130> FILE REFERENCE: um-06962  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/087,345  
C--> 9 <141> CURRENT FILING DATE: 2002-03-01  
9 <160> NUMBER OF SEQ ID NOS: 36  
11 <170> SOFTWARE: PatentIn version 3.0  
13 <210> SEQ ID NO: 1  
14 <211> LENGTH: 23  
15 <212> TYPE: DNA  
16 <213> ORGANISM: Artificial Sequence  
W--> 18 <220> FEATURE:  
W--> 18 <223> OTHER INFORMATION: *Sequence 1 is a synthetic sequence*  
18 <400> SEQUENCE: 1  
19 gcagcagccg gtgcggcagc cag 23  
22 <210> SEQ ID NO: 2  
23 <211> LENGTH: 21  
24 <212> TYPE: DNA  
25 <213> ORGANISM: Artificial Sequence  
W--> 27 <220> FEATURE:  
W--> 27 <223> OTHER INFORMATION:  
27 <400> SEQUENCE: 2  
28 tagacaccgt ccaactgagc c 21  
31 <210> SEQ ID NO: 3  
32 <211> LENGTH: 26  
33 <212> TYPE: DNA  
34 <213> ORGANISM: Artificial Sequence  
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W--> 36 <223> OTHER INFORMATION:  
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40 <210> SEQ ID NO: 4  
41 <211> LENGTH: 25  
42 <212> TYPE: DNA  
43 <213> ORGANISM: Artificial Sequence  
W--> 45 <220> FEATURE:  
W--> 45 <223> OTHER INFORMATION:  
45 <400> SEQUENCE: 4  
46 cctgccctt ggactcaagg tcacc 25  
49 <210> SEQ ID NO: 5  
50 <211> LENGTH: 24  
51 <212> TYPE: DNA  
52 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/087,345

DATE: 03/19/2002

TIME: 14:53:27

Input Set : A:\um-06962.txt

Output Set: N:\CRF3\03192002\J087345.raw

W--&gt; 54 &lt;220&gt; FEATURE:

W--&gt; 54 &lt;223&gt; OTHER INFORMATION:

54 &lt;400&gt; SEQUENCE: 5

55 ggtccacgcc tagtcatgct ggcc

24

58 &lt;210&gt; SEQ ID NO: 6

59 &lt;211&gt; LENGTH: 25

60 &lt;212&gt; TYPE: DNA

61 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 63 &lt;220&gt; FEATURE:

W--&gt; 63 &lt;223&gt; OTHER INFORMATION:

63 &lt;400&gt; SEQUENCE: 6

64 gctcagtcga ctgtgctcct gcttg

25

67 &lt;210&gt; SEQ ID NO: 7

68 &lt;211&gt; LENGTH: 26

69 &lt;212&gt; TYPE: DNA

70 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 72 &lt;220&gt; FEATURE:

W--&gt; 72 &lt;223&gt; OTHER INFORMATION:

72 &lt;400&gt; SEQUENCE: 7

73 ggtgctaaaaa ggtcttcttc taggac

26

76 &lt;210&gt; SEQ ID NO: 8

77 &lt;211&gt; LENGTH: 20

78 &lt;212&gt; TYPE: DNA

79 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 81 &lt;220&gt; FEATURE:

W--&gt; 81 &lt;223&gt; OTHER INFORMATION:

81 &lt;400&gt; SEQUENCE: 8

82 cagtgttagc aagaccaggg

20

85 &lt;210&gt; SEQ ID NO: 9

86 &lt;211&gt; LENGTH: 8372

87 &lt;212&gt; TYPE: DNA

88 &lt;213&gt; ORGANISM: Rattus norvegicus

90 &lt;400&gt; SEQUENCE: 9

91 tgtgtgcccc tctgccaatt taagcatgtt accagcattc ccacgtttc caaatgctga 60

93 gcccttgaga ctccgagacg cactgaaaag actacttttag ggatatagag actctgtacg 120

95 aggtgcagga actctctggg gggttggttg ccagcttttg ccgggggttg catggggatg 180

97 aaaaagggaag tgatggaagg gcaggagagag agagagagag agagagagag agagagagag 240

99 agagagagag agagagagca acagagagtg catacttatg tgctatatat ctaggggcct 300

101 ttctctgttc ttgctgttc ccacactagt tcacatcttg tttgtatctt tctctttgtg 360

103 cctgaatgca ccttggtggg tgtatatgtg atccttggtg gcactctctga gcacatatcc 420

105 cttgtgtctc tgtatctcta aactgtgcct gtctgggtac ctctttgtat gttctgttta 480

107 tttgcaggaa tgtgtcctca tgtgtctcct tgagtgtcca tgtgtctccg agaacggaga 540

109 gacaagtccct tggagacagc ttgggatgct gagtcctggg gtgtctgtct gctctggcct 600

111 tttctggttg gacaggatc ctagcaacac ttctgtgagt tgcctagcaa ccagggtcccc 660

113 atccttagag aaagagcagg gtctggctgt atgtgggagg tctggctctc attcagtcga 720

115 gacaggaaaa acaaacctat gatttgatga tgactagaga ctacagcatag ggtccctagc 780

117 ctacatgacc ttaacttatg gtttttttct cagtggactg tgctccccc cccaccccc 840

119 cccgtgctgg caaagaagga ggtccctagg agcttagtat ctctgtgttt tctaagatct 900

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/087,345

DATE: 03/19/2002

TIME: 14:53:27

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Output Set: N:\CRF3\03192002\J087345.raw

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127	gcttagtgca	cattaggtat	aaacagcaca	tagtagactc	agggcagtg	tgggtccaca	1140
129	gtccagacaa	tctcttgttt	attcgcaaga	agggcctttac	atggagaatt	agttgggtca	1200
131	ggatattgct	atcactgtgg	tactctaccc	tattggacac	cggctgaggg	cagttctggg	1260
133	taggaaagct	agcaaaatct	ggtctgtgct	cagtgggtgg	agcacatgcc	tttaatccta	1320
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187	gttcaactcc	tgttctgtct	ccatctgtct	cagactaggt	ggaggcttgg	agctgcagat	2940
189	aaattcatgc	catgatgtct	gtgtgaataa	cctcatgggt	acacaggatc	ctaggatttc	3000
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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/087,345

DATE: 03/19/2002

TIME: 14:53:27

Input Set : A:\um-06962.txt

Output Set: N:\CRF3\03192002\J087345.raw

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231	aatgtctaaag	aaacagaaact	taattcccaga	ttccctgata	gcaactaaac	tatcatggac	4260
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291	cgtgtgcgga	gcattgccaa	ggatgttggc	cttggttgca	agacttctga	gacagtacca	6060
293	cggccagcat	gactaggcgt	ggacctgccc	atggtgctctg	tcagcccaca	gagcccatct	6120
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305	ttctccctgc	tgccctggct	ctagctgggc	tcaacctgag	gtattgtagt	ggtcatgtag	6480
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309	ctgctgaaca	tacctggtat	tgcagtgggg	agcattaatt	ttcttttaaa	gtgagactgg	6600
311	cccttaagct	tggcggtgcc	ttggagcgtc	ttctacttct	gacttcactg	atgcagtcag	6660
313	attaccogag	ggtgagcatc	agtggtttct	tggatggctg	ttttctgaag	attcttccca	6720
315	tcagttacat	ggagtctatg	aaggaggtca	caattcatct	ggtactgcca	ctacctgctc	6780
317	tataatcctg	ggctatcttc	ttggcaagat	gacagtgggg	gagacaagac	acagagcttc	6840

## RAW SEQUENCE LISTING

DATE: 03/19/2002

PATENT APPLICATION: US/10/087,345

TIME: 14:53:27

Input Set : A:\um-06962.txt

Output Set: N:\CRF3\03192002\J087345.raw

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319 cctaaggctc tttccctcca aaaccactgt gaactottat cctacagact gttcggcaag 6900
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323 tcacaacatg gaggcaccac atgctggtct tgctgtctta gtacaggcag gacagagcag 7020
325 aatatgctct ctctcgatcc tctacaaact ccttcagttc tccagcagag tctcttttac 7080
327 ttgctatcag aggtcaggag ttgtactgct agaagcatac ttgtagcttg ggaagagtgg 7140
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331 gacatatctg agtaaggcct gagtgtgctg ccaaattgga gggttggtatg agagctgatg 7260
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337 cgcccttcta tgggtcagat atcaaaatac cagcaacgtt ggatagattc tgacctttta 7440
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343 tagctctaga gttttcttgc taatgctaag aaactttgtg aatttgata tctttatgta 7620
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367 agtctagcag ttataatca aaaggtatga atttctaata ggcttaaaag atgcagccca 8340
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372 &lt;210&gt; SEQ ID NO: 10

373 &lt;211&gt; LENGTH: 1566

374 &lt;212&gt; TYPE: DNA

375 &lt;213&gt; ORGANISM: Rattus norvegicus

377 &lt;400&gt; SEQUENCE: 10

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378 ctgcacagcc cctccttctc tcagccgcag ccttctgccc ctcccccttc tggtgcccgc 60
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382 ggcgcagcag accccaatct agagtgcagc tcattgctca gtccactgtg ctctgctctg 180
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400 gattcattcc acaaaactac attcaggcac accaagatga agacagctac caacatttac 720
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404 gacatcctac tgggcttctg gccatttggg aatgcactct gcaagactgt cattgctatc 840
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## VERIFICATION SUMMARY

DATE: 03/19/2002

PATENT APPLICATION: US/10/087,345

TIME: 14:53:28

Input Set : A:\um-06962.txt

Output Set: N:\CRF3\03192002\J087345.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:18 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:18 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:27 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:27 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:36 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:36 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:45 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:45 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:54 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:54 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:63 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:63 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:72 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:72 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:81 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:81 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: